

## ABSTRACT OF THE DISCLOSURE

**[0036]** A compact illumination system that is suitable for, e.g., projection systems, includes a plurality of light emitting diodes that are aligned along the same axis. The illumination system includes mirrors and a filter system for combining the light emitted by the different light emitting diodes. The light emitting diodes may be mounted within the same plane, e.g., on the same heatsink, which simplifies assembly and alignment of the system. Moreover, a collimator system with integrally formed refractive and/or reflective collimators, may be used. The use of an integrally formed collimator system advantageously reduces the number of piece parts and simplifies assembly.